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L4: Entry 2 of 2   File: DWPI   May 4, 2004

ERWENT-ACC-NO: 1995-352940
ERWENT-WEEK: 200430
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ITLE: Automatic computer software updating system for PC - detects when server obtains access
o updated versions of computer program stored in library and requests delivery of updated
ersion of program from server to PC

NVENTOR: SIEFERT, D M

ATENT-ASSIGNEE:

SSIGNEE	CODE
T & T GLOBAL INFORMATION SOLUTIONS INT	AMTT
CR INT INC	NATC
CR CORP	NATC

RIORITY-DATA: 1994US-0217063 (March 24, 1994), 2000US-0643599 (August 22, 2000), 2000US-0643604
August 22, 2000), 2000US-0643605 (August 22, 2000)

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ATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	US 6732358 B1	May 4, 2004		000	G06F009/445
☐	EP 677809 A1	October 18, 1995	E	118	G06F009/445
☐	JP 07295830 A	November 10, 1995		001	G06F009/445
☐	US 6480855 B1	November 12, 2002		000	G06F017/30
☐	US 6502096 B1	December 31, 2002		000	G06F017/30
☐	US 6519600 B1	February 11, 2003		000	G06F017/30

ESIGNATED-STATES: DE FR GB

ITED-DOCUMENTS:EP 106213; WO 9222870

PPLICATION-DATA:

UB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
S 6732358B1	March 24, 1994	1994US-0217063	
P 677809A1	March 20, 1995	1995EP-0301827	
P 07295830A	March 23, 1995	1995JP-0064521	
S 6480855B1	March 24, 1994	1994US-0217063	Cont of
S 6480855B1	August 22, 2000	2000US-0643599	
S 6502096B1	March 24, 1994	1994US-0217063	Cont of
S 6502096B1	August 22, 2000	2000US-0643604	
S 6519600B1	March 24, 1994	1994US-0217063	Cont of

NT-CL (IPC): <u>G06</u> <u>F</u> <u>9</u>/<u>445</u>; <u>G06</u> <u>F</u> <u>17</u>/<u>30</u>

BSTRACTED-PUB-NO: EP 677809A
ASIC-ABSTRACT:

he computer (1) includes a bus for linking the PC (1) with a server, a computer program memory
nd a processor for detecting when the server (16) obtains access to updated versions of a
omputer program, and upon detection, requesting delivery of the updated version of the program
rom the server (16) to the PC (1).

he system further detects when periodic software updates occur in multiple computers storing
oftware masters, and after detection, downloads copies of the updated masters to selected
omputers (1), and installs the downloaded copies on the PC (1).

SE/ADVANTAGE - Automatic updating of computer software from remote software library in multiple
omputer system. Provides user with improved information access facilities.

HOSEN-DRAWING: Dwg.1c/96

ITLE-TERMS: AUTOMATIC COMPUTER SOFTWARE UPDATE SYSTEM DETECT SERVE OBTAIN ACCESS UPDATE VERSION
OMPUTER PROGRAM STORAGE LIBRARY REQUEST DELIVER UPDATE VERSION PROGRAM SERVE

ERWENT-CLASS: T01

PI-CODES: T01-F05B; T01-J05B4; T01-J20B; T01-M02A;

ECONDARY-ACC-NO:
on-CPI Secondary Accession Numbers: N1995-263150

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L5: Entry 2 of 2   File: DWPI   Nov 10, 1998

ERWENT-ACC-NO: 1999-009262
ERWENT-WEEK: 200130
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ITLE: Software circulation maintenance system used for updating software donated by user – has
ne or more servers to provide service for each software library while these servers are
onnected to one or more client systems through unified message protocol

NVENTOR: NAKAGAWA, T; TAKADA, Y

ATENT-ASSIGNEE:

SSIGNEE	CODE
UJITSU LTD	FUIT

RIORITY-DATA: 1995JP-0233422 (August 17, 1995), 1994JP-0014706 (February 8, 1994), 1994JP-
014710 (February 8, 1994)

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ATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	US 5835911 A	November 10, 1998		084	G06F017/30
☐	JP 3167522 B2	May 21, 2001		016	G06F013/00
☐	JP 07225723 A	August 22, 1995		040	G06F013/00
☐	JP 07225724 A	August 22, 1995		014	G06F013/00
☐	JP 3167521 B2	May 21, 2001		036	G06F013/00

PPLICATION-DATA:

UB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
S 5835911A	February 8, 1995	1995US-0385460	CIP of
S 5835911A	August 21, 1995	1995US-0517133	
P 3167522B2	February 8, 1994	1994JP-0014710	
P 3167522B2		JP 7225724	Previous Publ.
P 07225723A	February 8, 1994	1994JP-0014706	
P 07225724A	February 8, 1994	1994JP-0014710	
P 3167521B2	February 8, 1994	1994JP-0014706	
P 3167521B2		JP 7225723	Previous Publ.

NT-CL (IPC): G06 F 9/06; G06 F 9/445; G06 F 13/00; G06 F 15/163; G06 F 17/30

ELATED-ACC-NO: 1997-198944

BSTRACTED-PUB-NO: US 5835911A
ASIC-ABSTRACT:

he system receives object software programs are offered by many software donors (V1,V2) through
 computer network. A client manages the object software group containing object software which
s accessed by one or more users (U1-U4). Servers (4,5) provide the service by donating software
rograms. The client and the server are connected by a unified message protocol. Each client
esponds to an indication given by a user and the indication originated from an user program.

hen a network receives a request for software circulation or maintenance. It transmits relevant
essage to server corresponding to the object software. Then, it receives the response from the
erver. According to the contents of the response and a setting mode by the user a processing is
xecuted. Each server receives the message from client according to the contents of the message
nd setting made by the donor. A reference is made to the software library. A response message
s generated and it is transmitted to the client processor from which the original request was
eceived.

DVANTAGE - Simplifies system development. Speeds up software updation. Improves adaptability.

ITLE-TERMS: SOFTWARE CIRCULATE MAINTAIN SYSTEM UPDATE SOFTWARE DONATING USER ONE MORE SERVE
ERVICE SOFTWARE LIBRARY SERVE CONNECT ONE MORE CLIENT SYSTEM THROUGH UNIFIED MESSAGE PROTOCOL

ERWENT-CLASS: T01

PI-CODES: T01-H07C3E; T01-H07C5S; T01-J20B2;

ECONDARY-ACC-NO:
on-CPI Secondary Accession Numbers: N1999-006733